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Abstract

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PATENT SPECIFICATION

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Inventor: ERIC WOOD.

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Index at Acceptance:—E1 G (84A, 84B).

Int. Cl.—E 01 h 5/06.

COMPLETE SPECIFICATION

DRAWINGS ATTACHED

Improvements in or relating to Snow Ploughs

WE, JAMES A. CUTHBERTSON LIMITED, a British Company, of Biggar, Scotland, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:

This invention relates to snow ploughs.

Snow ploughs for road use as at present constructed customarily incorporate a blade and a scraper disposed at the lower edge of the blade. In snow ploughs as constructed heretofore the scraper is rigidly connected to the blade.

A snow plough according to the invention incorporates a blade and a scraper connected to the blade by at least one resilient distance piece gained along the lower edge of the blade. The distance piece may be in the form of a continuous bar extending across the width of the blade or may consist of blocks spaced at intervals across the width of the blade. The distance piece may be of rubber or other material providing an appreciable degree of resilience.

The bar or each block of resilient material may carry two metallic strips bonded to opposite faces, one of the metallic strips being connected to the blade and the other metallic strip being connected to the scraper.

The blade may be mounted on a ground wheel located behind the blade. The ground wheel may have a resilient surface.

The ground wheel may be constituted by a roller.

The mounting of the blade on the ground wheel may include means for altering the vertical position of the blade with respect to the axis of the ground wheel. In one construction the ground wheel is rotatable about a dead axle and arms fixed to the axle are formed with screw-threaded portions engaged with screw-threaded rods rotatably

mounted on the blade but restrained from making axial movement relative to the blade.

A practical embodiment of the invention is illustrated in the accompanying drawing in which 1 denotes a ground wheel rotatable about a dead axle 2 to which is fixed at each end an arm 3 incorporating nuts 4 constituting a screw-threaded portion. 5 denotes a screw-threaded rod engaging the nut 4, the rod 5 being held in bearing brackets 6 presented by a blade 7 to permit the rod 5 to be rotated relatively to the blade 7 but not to permit the rod 5 to move axially relatively to the blade 7. 8 denotes a handle for rotating the rod 5. 9 denotes a scraper connected to the blade 7 by a resilient distance piece 10 in the form of a bar or of blocks of resilient material. 11 denotes metallic strips bonded to opposite faces of the resilient distance piece 10.

In practice, if a snow plough according to the invention meets an irregularity on the surface being cleared the scraper 9 by virtue of its resilient connection 10 to the blade 7 will deflect and prevent damage from occurring to the blade 7. The clearance of the scraper 9 above the road surface can be altered by rotating each rod 5 by the handle 8 thus causing the rod and the attached blade 7 and the scraper 9 to move relatively to the arm 3 and alter the vertical position of the blade 7 and the scraper 9 relative to the arm 3. Any small projection on the road surface deforms the surface of the resilient wheel 1 which thus remains at the same level so that the clearance of the scraper 9 above the road surface is not affected by an irregularity in the road surface behind the scraper 9.

WHAT WE CLAIM IS:—

1. A snow plough incorporating a blade and a scraper disposed at the lower edge of

[Price 4s. 6d.]

the blade in which the blade carries along its lower edge at least one resilient distance piece to which the scraper is attached.

2. A snow plough as claimed in claim 1 in which the distance piece is in the form of a continuous bar of resilient material extending across the width of the blade.

3. A snow plough as claimed in claim 1 in which the distance piece consists of blocks of resilient material spaced at intervals across the width of the blade.

4. A snow plough as claimed in claim 2 or claim 3 in which the bar or each block of resilient material carries two metallic strips bonded to opposite faces, one of the metallic strips being connected to the blade and the other metallic strip being connected to the scraper.

5. A snow plough as claimed in claim 1 in which the blade is mounted on a ground wheel located behind the blade.

6. A snow plough as claimed in claim 5 in which the ground wheel has a resilient

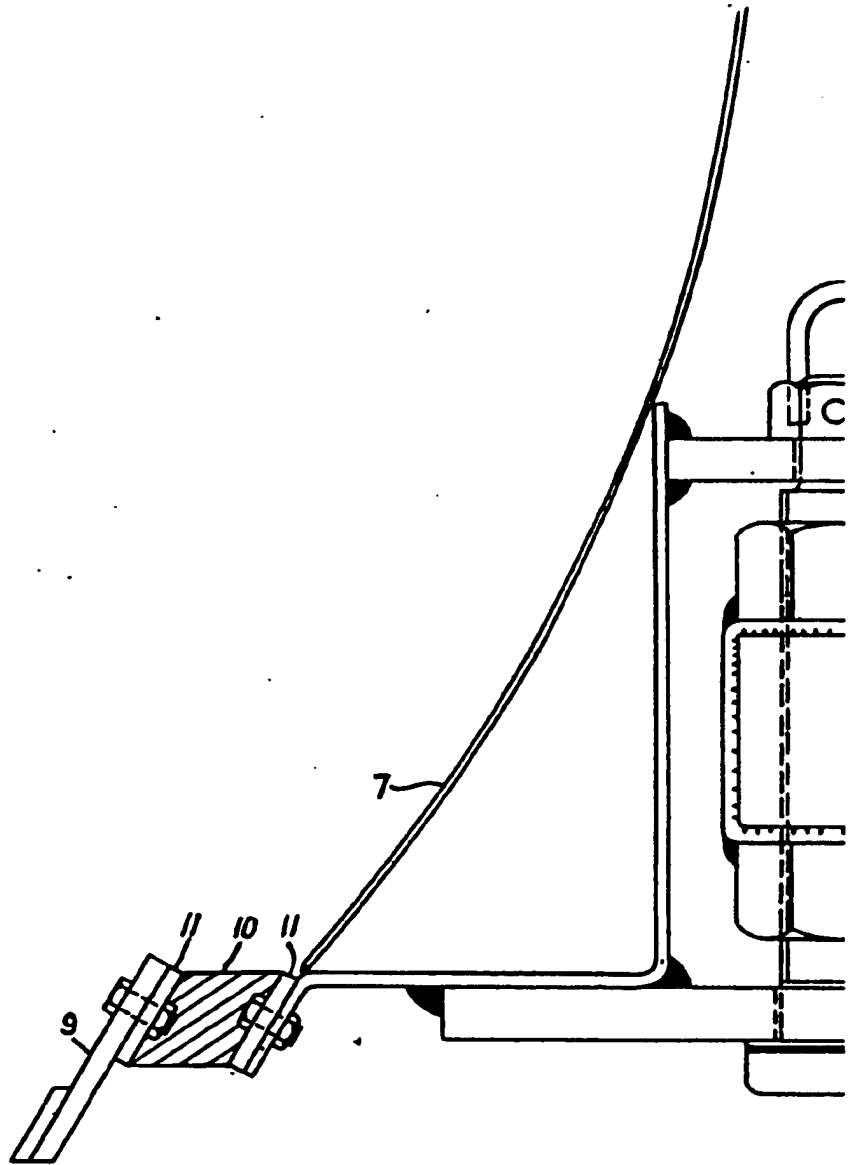
surface.

7. A snow plough as claimed in claim 5 in which the mounting of the blade on the ground wheel includes means for altering the vertical position of the blade with respect to the axis of the ground wheel.

8. A snow plough as claimed in claim 7 in which the ground wheel is rotatable about a dead axle and arms fixed to the axle are formed with screw-threaded portions, screw-threaded rods rotatably mounted on the blade but restrained from making axial movement relative to the blade being engaged with the screw-threaded portions on the arms.

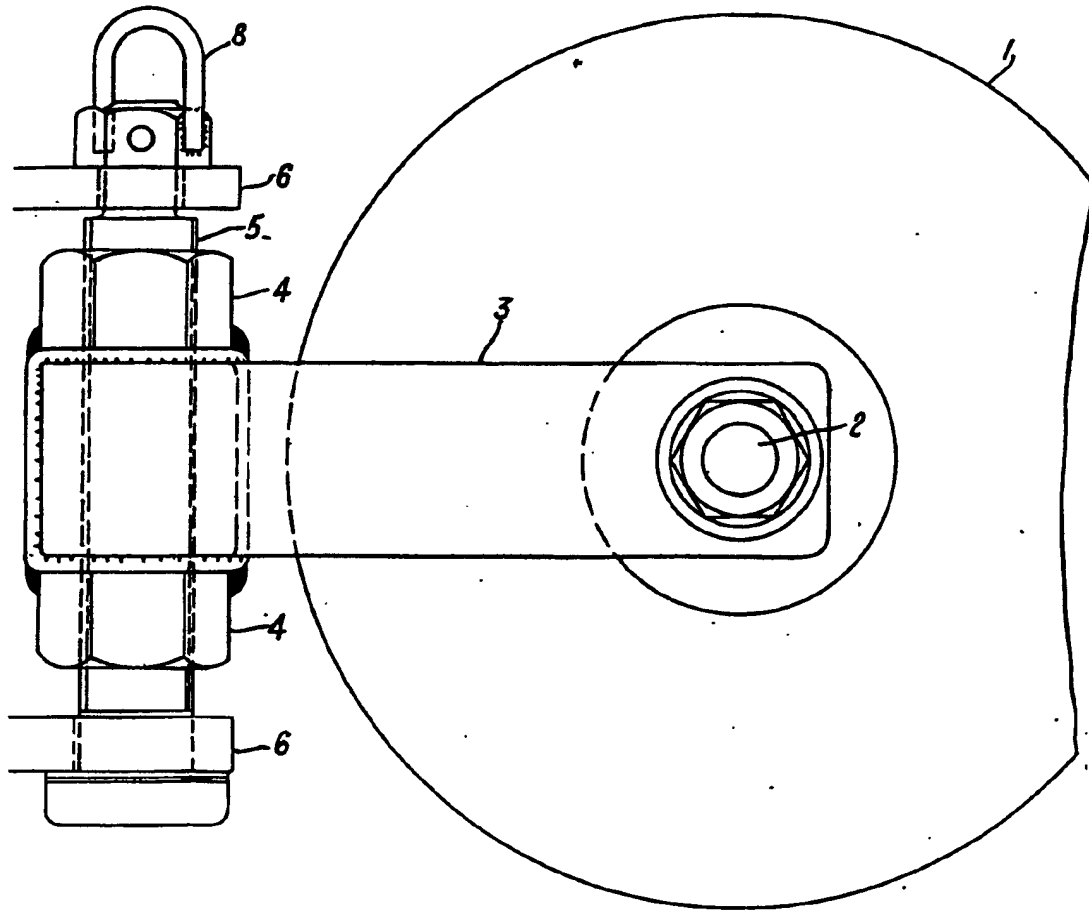
9. A snow plough substantially as described with reference to the accompanying drawing.

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1,058,602 COMPLETE SPECIFICATION
1 SHEET

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the Original on a reduced scale.*



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